

FIG. 12a

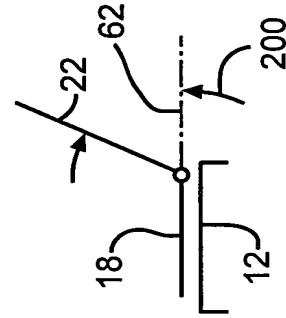


FIG. 12b

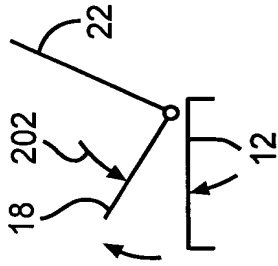


FIG. 12c

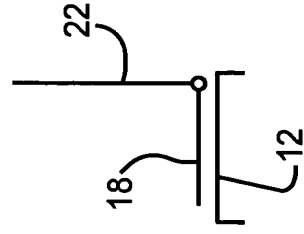


FIG. 12d

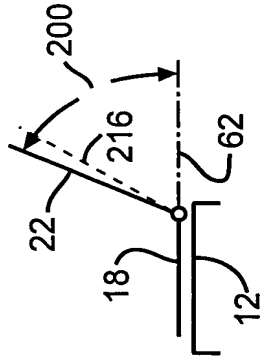


FIG. 13a

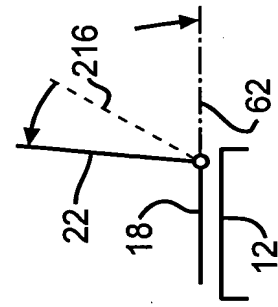


FIG. 13b

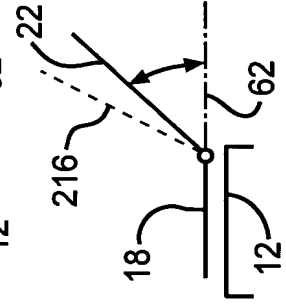


FIG. 13c

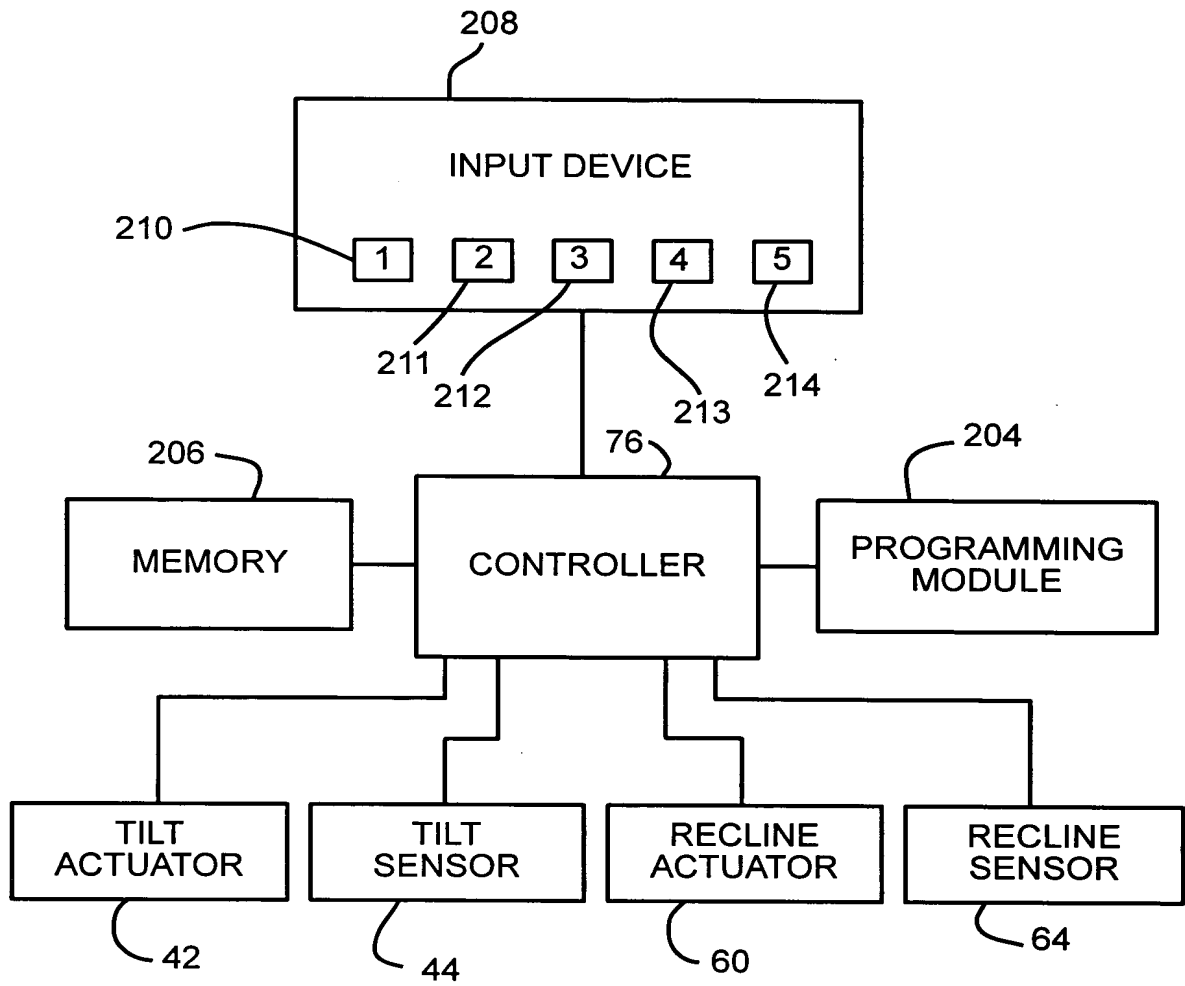


FIG. 14

Table I - Sequence of Setpoints

Step Number	Position of first articulated member	Position of second articulated member
1	1	1
2	22	15
3	34	22
4	56	30
5	62	36
6	68	44
7	74	57
8	85	72
9	94	80
10	103	84
11	121	89
12	145	92

FIG. 15

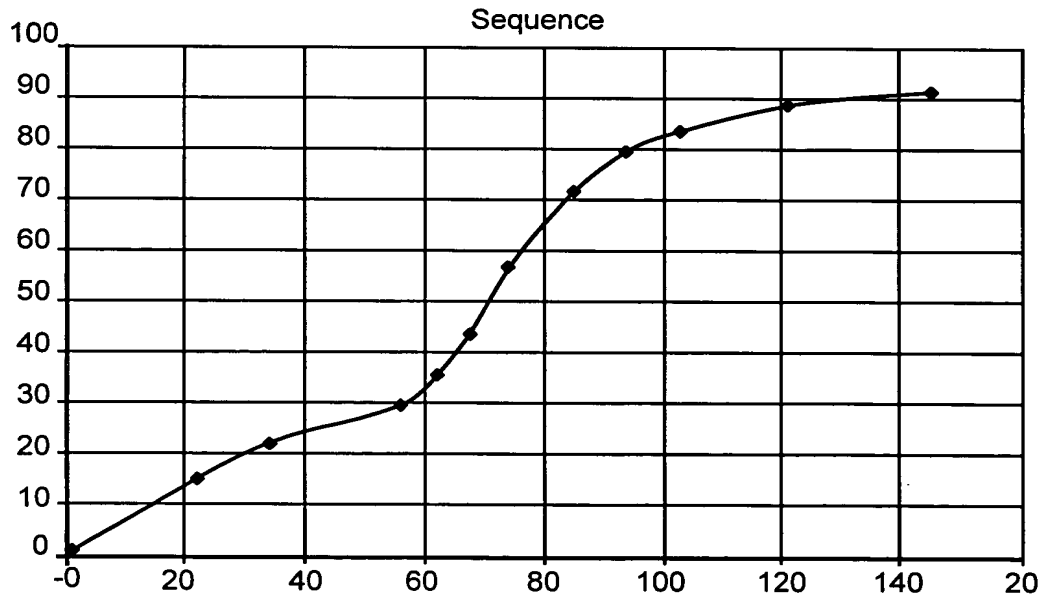


FIG. 16

Name of Inventor: James M. Koerlin
Name & Telephone Number of Person to Call If Necessary:

Ted C. Gillespie: (419) 255-5900
Serial No. 10/616,465 Docket No. 1-24510
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Actuator 1 $x = 3 + 4t + .5t^2$

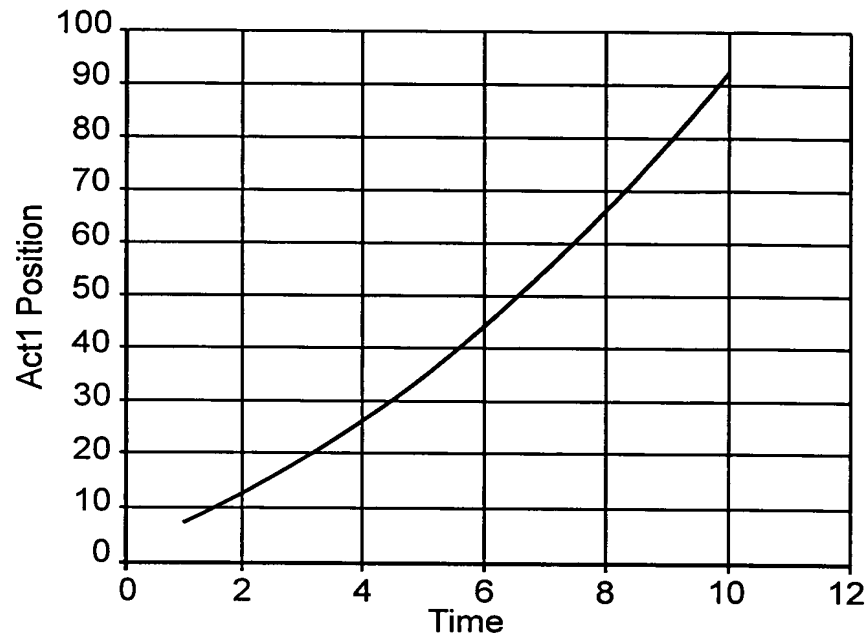


FIG. 17

Actuator 2 $y = 1 + 6t - .4t^2$

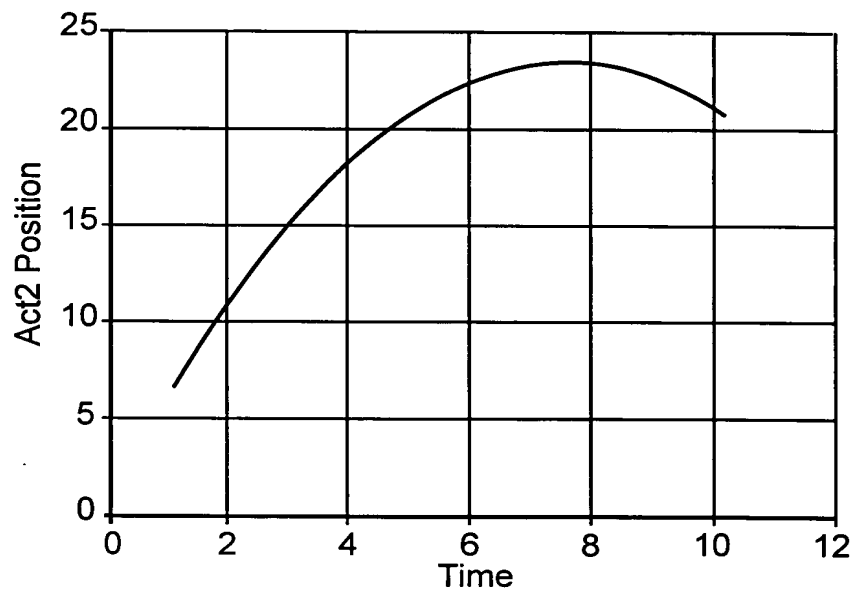


FIG. 18